

National Draw for the Lakes Survey

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Overview of Presentation

- Methodology for the draw
- Discussion of site locations
- Review site packages
- Discuss site evaluation/reconnaissance
- Next steps

Draw for Lakes Survey

- For purposes of the Survey, “**lakes**” refers to natural and manmade freshwater lakes, ponds, and reservoirs greater than 10 acres (4 hectares) in the conterminous U.S., excluding the Great Lakes
- National Hydrography Dataset was used to derive a list of lakes for potential inclusion in the Survey



Draw for Lakes Survey *(continued)*

- 909 individual lakes greater than 10 acres will be sampled
- 91 lakes will be revisited
- Includes 113 lakes from the 1972 National Eutrophication Survey (NES)
- Lake selection for the Survey provided for 5 size class categories, spatially distributed across the lower 48 States and 9 aggregated Level 3 ecoregions

Draw for Lakes Survey *(continued)*

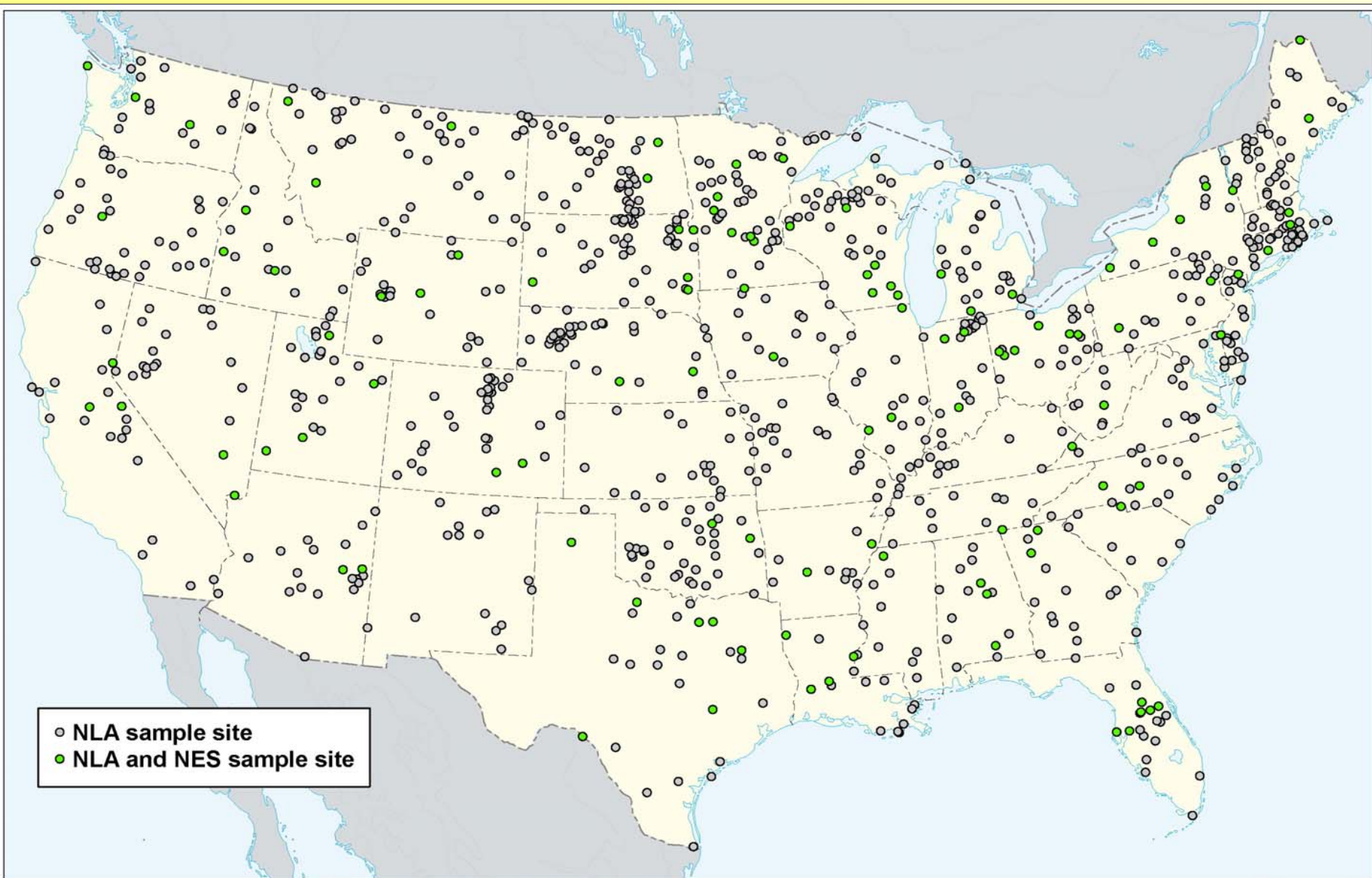
- Number of lakes per State:
 - Range: 4 – 41
 - Median: 18
- 25 lakes appear to be in Tribal jurisdictions
- Lakes found to be “non-target” or that lack access permission will be replaced by a lake within that State.
- We need to create list of systems that are on maps but are “non-target” – e.g., fish farms, treatment lagoons, stormwater retention ponds, etc.

Distribution of Lakes in Survey

Lake Size Category	# of Lakes Selected	Total # of Lakes in U.S.
10-25 acres	104	68,559
25-50 acres	185	24,902
50-125 acres	184	16,488
125-250 acres	172	6,134
> 250 acres	264	7,356
Total	909	123,439



Map of Sample Sites



Materials in Site Packages

- Binder includes:
 - 2 maps for each site: one larger scale and one that zooms into the site
 - Info on who to contact for site access, including landownership info
- CD includes:
 - Info on all sites including oversample sites

Purpose of Site Evaluation/Reconnaissance

- Verify each site meets definition for inclusion in Survey
- Develop access and sampling plan for each site
- Obtain landowner permission before arriving with boat, gear and crew
- Document reason for rejecting any random site
- Improve our estimates of lake extent and refine NHD



Site Evaluation/ Reconnaissance Steps

- Desktop evaluation
- Field visit, if necessary
- Obtain landowner permission for access
- Documentation, documentation, documentation!



Definition of Lake

- “Lakes” include any lake, pond or reservoir that:
- ***IS . . .***
 - Permanent body of water
 - Greater than 10 acres (4 hectares)
 - Greater than 1 meter deep (?)
 - Greater than a 1,000 square meters of open water (?)
 - Others?
- And is ***NOT . . .***
 - Saline
 - Or used for aquaculture, disposal-tailings, sewage treatment, evaporation, or other disposal, farm pond
 - Others?



Next Steps

- Guidance and training on site reconnaissance
- States determine if sites meet definition for survey
- Follow-up with EPA site reconnaissance coordinator (Laura Gabanski)

For more information, visit:

www.epa.gov/owow/lakes/lakesurvey/

